

Product Discontinuation Notice

Programmable Multi-Axis Controller (PMAC)

Issue Date
March 31, 2023

20230323_DOP_00003

For over 20 years, the Turbo PMAC family and other common accessories have enjoyed a successful life span and numerous innovative applications. We thank you for that. Key components on these products have been obsolete for a few years now. They are no longer obtainable and our inventory stock is nearing its' end. For that reason, we are announcing the discontinuation of certain products that incorporate these components. Please contact your local OMRON sales representative for more information about this notice and other OMRON industry-leading line of programmable multi-axis motion controllers.

Product Discontinuation

MACRO ANALOG SERVO PERIPHERAL
Accessory ACC-24M2A



Model 4-3744-00-□00□-00000



Recommended Replacement

No Direct Replacement

UMAC Systems

ACC-5E3 + ACC-24E3

PB□□-A□□0□□-1□□□□□□0

EtherCAT Drives

Omron 1S or 1SA Series

[Final order entry date]

March 31, 2024

[Date of The Last Shipping]

September 30, 2024

[Scheduled date of maintenance close]

September 29, 2027 (subject to part availability)

[Difference from discontinued product]

Recommended replacement	Body Color	Dimensions	Wire Connection	Mounting Dimensions	Form Factor	Operation Ratings	Operation Methods
UMAC Solution	-	--	*	--	*	*	-
Power Brick Solution	-	--	*	--	*	*	-
EtherCAT Solution	-	-	--	-	-	-	-

** : Compatible

* : Minor change/Almost compatible

-- : Not compatible

- : No corresponding specification

[Product Discontinuation and Recommended Replacement]

4-3744-00-□00□-00000 Part Number

ACC-24M2A

4	-	3	7	4	4	-	0	0	-	0	0	-	0	0	0		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--

D

A - Fiber-Optic MACRO Transceiver
C - RJ-45 MACRO Connector

MACRO Communication Options

G

0 - Standard Quadrature Encoder Feedback
3 - Quadrature Encoder Feedback and Two channels of sinusoidal, Resolver, Two channels of SSI Encoder Feedback

MACRO Node Options

K L

00 - No Additional* Options
xx - Factory assigned digits for Additional* Options

Factory Assigned Options

* If Any Additional Option is required, contact factory for digits **K** and **L** (Factory Assigned digits).

For UMAC Solution:

3-4017A-00-□00□-□1□□ Part Number

UMAC ACC-5E3

3	-	4	0	1	7	A	-	0	0	-	0	0	-	1		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--

E

A - Fiber-Optic MACRO Transceiver

MACRO Communication Options

H

1 - 32-Node MACRO ASIC
2 - 64-Node MACRO ASIC

MACRO Node Options

I

B - BLACK Front, top and bottom plates (Standard)
F - BLACK Front plate only Order as Spare Only

Plate Options

K L

00 - No Additional* Options
xx - Factory assigned digits for Additional* Options

Factory Assigned Options

* If Any Additional Option is required, contact factory for digits **K** and **L** (Factory Assigned digits).

3-4002A□□□□-□□□□-□□□ Part Number

ACC-24E3

3	-	4	0	0	2	A					-						
---	---	---	---	---	---	---	--	--	--	--	---	--	--	--	--	--	--

A B

50 - Axis 1-2 Digital PWM
61 - Axis 1-2 Two Phase 16-bit DAC with Removable Terminal Blks
62 - Axis 1-2 Two Phase 16-bit DAC with DB15 connectors
63 - Axis 1-2 Three Phase 18-bit DAC with DB15 connectors
65 - Axis 1-2 Two Phase 18-bit DAC with Removable Terminal Blks
66 - Axis 1-2 Two Phase 18-bit DAC with DB15 connectors
67 - Axis 1-2 One Phase 16-bit DAC with DB15 connectors

C D

00 - No Axis 3-4
50 - Axis 3-4 Digital PWM
61 - Axis 3-4 Two Phase 16-bit DAC with Removable Terminal Blks
62 - Axis 3-4 Two Phase 16-bit DAC with DB15 connectors
63 - Axis 3-4 Three Phase 18-bit DAC with DB15 connectors
65 - Axis 3-4 Two Phase 18-bit DAC with Removable Terminal Blks
66 - Axis 3-4 Two Phase 18-bit DAC with DB15 connectors
67 - Axis 3-4 One Phase 16-bit DAC with DB15 connectors

Amplifier Interface

E F

31 - Axis 1-2 Digital Feedback with Removable Terminal Blks
32 - Axis 1-2 Digital Feedback with DB15 connectors
41 - Axis 1-2 Sine encoder with 16-bit ADCs
42 - Axis 1-2 Resolver with 16-bit ADCs
43 - Axis 1-2 Sine encoder Not Filtered with 12-bit ADCs
44 - Axis 1-2 Resolver with 12-bit ADCs
45 - Axis 1-2 Sine encoder Filtered, with 16-bit ADCs
46 - Axis 1-2 16-bit Auto-Correcting Interpolator, DB15
47 - Axis 1-2 16-bit Three Phase Interpolator, DB15

Feedbacks

G H

00 - No Axis 3-4
31 - Axis 3-4 Digital Feedback with Removable Terminal Blks
32 - Axis 3-4 Digital Feedback with DB15 connectors
41 - Axis 3-4 Sine encoder with 16-bit ADCs
42 - Axis 3-4 Resolver with 16-bit ADCs
43 - Axis 3-4 Sine encoder Not Filtered with 12-bit ADCs
44 - Axis 3-4 Resolver with 12-bit ADCs
45 - Axis 3-4 Sine encoder Filtered, with 16-bit ADCs
46 - Axis 3-4 16-bit Auto-Correcting Interpolator, DB15
47 - Axis 3-4 16-bit Three Phase Interpolator, DB15

I

B - Front, top and bottom Black plates (Standard)

Plate Options

K L

00 - No Additional* Options
xx - Factory assigned digits for Additional* Options

Factory Assigned Options

* If Any Additional Option is required, contact factory for digits **K** and **L** (Factory Assigned digits).

For Power Brick Solution:

PBL□-A□□0□□-1□□□□□□0 Part Number

(B)
(D)(E)
(G)(H)
(I)(J)(K)(L)(M)(N)(O)

P	B	L		-	A			0			-						0
---	---	---	--	---	---	--	--	---	--	--	---	--	--	--	--	--	---

Option B	
4:	4-Axis
8:	8-Axis

Option GH		
	Axis 1-4	Axis 5-8 No. Enc. + Flags
50:	5/15A	- 4
5A:	5/15A	- 8
70:	1/3A	- 4
7A:	1/3A	- 8
80:	0.25/0.75A	- 4
8A:	0.25/0.75A	- 8
55:	5/15A	5/15A 8
77:	1/3A	1/3A 8
88:	0.25/0.75A	0.25/0.75A 8
57:	5/15A	1/3A 8
58:	5/15A	0.25/0.75A 8
78:	1/3A	0.25/0.75A 8

Option I	
0:	-
1:	MACRO

Option O				
	True DAC	Filtered PWM	Analog Inputs	GP Relays
0:	-	-	-	-
1:	-	4	4	4
2: ^{*1}	-	8	8	8
4: ^{*5}	4	-	4	4
5: ^{*5}	4	4	4	8

^{*1} Only available with 8 encoder channels
^{*5} Only available with 8 encoder channels and 4 amplifier channels in option H (value A)

PBA□-A□□0□□-1□□□□□□0 Part Number

(B)
(D)(E)
(G)(H)
(I)(J)(K)(L)(M)(N)(O)

P	B	A		-	A			0			-						0
---	---	---	--	---	---	--	--	---	--	--	---	--	--	--	--	--	---

Option B	
4:	4-Axis
8:	8-Axis

Option GH		
	Axis 1-4	Axis 5-8 No. Enc.
50:	5/10A	- 4
5A:	5/10A	- 8
80:	8/16A	- 4
8A:	8/16A	- 8
55:	5/10A	5/10A 8
85:	8/16A	5/10A 8
88:	8/16A	8/16A 8

Option I	
0:	-
1:	MACRO

Option O				
	True DAC	Filtered PWM	Analog Inputs	GP Relays
0:	-	-	-	-
1:	-	4	4	4
2: ^{*1}	-	8	8	8
4: ^{*5}	4	-	4	4
5: ^{*5}	4	4	4	8

^{*1} Only available with 8 encoder channels

For EtherCAT Solution (Omron 1S Servodrive):

R88D-1SN□□□-ECT Part Number	
<div style="text-align: right; margin-bottom: 20px;"> R88D-1SN01H-ECT </div> <div> 1S-series _____ Servo Drive </div> <div> Drive type _____ N : Communications type </div> <div> Maximum applicable Servomotor capacity _____ 01 : 100 W 02 : 200 W 04 : 400 W 06 : 600 W 08 : 750 W 10 : 1 kW 15 : 1.5 kW 20 : 2 kW 30 : 3 kW </div> <div> Power supply voltage _____ L : 100 VAC H : 200 VAC F : 400 VAC </div> <div> Communications type _____ ECT : EtherCAT communications </div>	<div style="border-left: 1px solid black; border-right: 1px solid black; border-top: 1px solid black; border-bottom: 1px solid black; height: 400px; margin: 0 auto; width: 100%;"></div>

NOTES:

- A UMAC Solution is the closest replacement, but because of the differences, customers are recommended to contact local Omron representative to determine the most appropriate solution for their specific application.

Product Discontinuation	Recommended Replacement
4-3744-00-A000-00000	Contact Local Omron Representative
4-3744-00-C000-00000	Contact Local Omron Representative
4-3744-00-A003-00000	Contact Local Omron Representative
4-3744-00-C003-00000	Contact Local Omron Representative

Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.

Rev	Description	Date	Prepared By	Approved By
A	Released	3/10/2023	PS	AA